

## Business Profile

Advanced Energy® (AE®) has devoted more than three decades to perfecting power—enabling design breakthroughs and driving growth for leading semiconductor and industrial customers. Our precision power and control technologies, along with our applications know-how, inspire close partnerships and perpetual innovation for semiconductor and industrial customers.

Founded in 1981, Advanced Energy has built a diversified and global business, delivering advanced power and control technologies to customers across a broad range of industries. The AE team, deployed throughout North America, Europe and Asia, provides technical expertise and responsive and agile power solutions for thin-film and industrial manufacturing.

AE process power products provide leading, field-proven power control and arc-management capabilities that enable complex semiconductor processes and other high-technology applications.

Our high-voltage power systems serve high-tech and industrial applications from x-ray and scientific analysis to intense pulsed light and mass spectrometry.

AE thermal products offer precision temperature measurement and control, while AE power control modules provide exceptional quality for heating, melting, bending, forming or drying in a wide variety of industrial applications.

At Advanced Energy, we provide the breakthrough that enables the breakthrough.

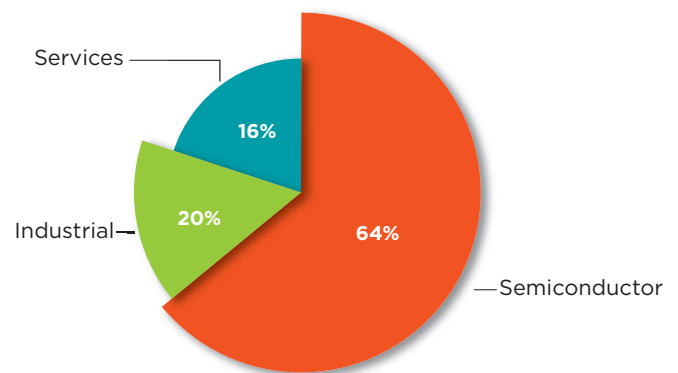
## Corporate Overview

<b>Founded:</b>	1981
<b>Headquarters:</b>	Fort Collins, CO USA
<b>Employees:</b>	1489 <b>(December 31, 2016)</b>
<b>Q3 2017 Revenue:</b>	\$176.6 million USD
<b>2016 Revenue:</b>	\$483.7 million USD
<b>Nasdaq:</b>	AEIS
<b>Phone:</b>	800 446 9167 <i>(U.S. only)</i> +1 970 221 0108 <i>(U.S. and International)</i>
<b>Website:</b>	www.advanced-energy.com

## Key Growth Applications

- Semiconductor
- Industrial coating
- Thin-film renewables *(solar and glass)*
- Data storage
- High-brightness LED *(HBLED)*
- Flat panel display and OLED
- Analytical instruments
- Medical equipment
- Aerospace and defense

## 2016 Revenue



**Advanced Energy enables design breakthroughs for leading semiconductor and industrial customers.**



## PRODUCT PORTFOLIO

### Process Power

#### Direct Current

**Applications:** Semiconductors, FPDs, solar panels, data storage and advanced thin-film applications, including hard coatings and cathodic arc

#### Low- and Mid-Frequency

**Applications:** Semiconductors, solar panels and advanced thin-film applications

#### Radio Frequency

**Applications:** Semiconductors, FPDs, solar panels, advanced thin-film applications, etch and deposition

#### RF Instrumentation

**Applications:** Semiconductors, FPDs, solar panels, data storage and advanced thin-film applications

### High-Voltage Power

**Applications:** Semiconductor implantation and inspection, X-ray, mass spectrometry, scientific, industrial and medical

### Thermal Products

#### Thermal Measurement

**Applications:** Semiconductors, solar panels and advanced packaging applications

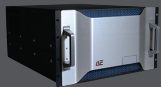
#### Thyristor Power Control

**Applications:** Heating, melting, forming and drying

### Global Services

#### Global Coverage, Local Resources

Comprehensive repair, enhancement and used equipment programs for the complete lifecycle of your products



Ascent<sup>®</sup> AMS and DMS



Paramount<sup>®</sup>



Solvix<sup>®</sup>



Thyro-Family



HiTek Power<sup>®</sup>



UltraVolt<sup>®</sup>

### Executive Management

Yuval Wasserman *President and CEO*

Tom Liguori *Executive VP and CFO*

Tom McGimpsey, *Executive VP,*

*General Counsel and Corporate Secretary*

### Worldwide Locations

#### R&D Design Centers and Regional Manufacturing

Fort Collins, Colorado · Vancouver, Washington  
Ronkonkoma, New York · Pune, India  
Shenzhen, China · Villaz-St-Pierre, Switzerland  
Metzingen, Germany · Warstein-Belecke, Germany  
Littlehampton, West Sussex, U.K.  
Seoul, South Korea · Little Island, Cork, Ireland

#### Other Worldwide Sales and Support Offices

San Jose, California · Austin, Texas  
Georgetown, Massachusetts · Tokyo, Japan  
New Taipei City, Taiwan · Singapore  
Shanghai, China · Xi'an, China

### Contacts

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